Approved for use through 07/31/2006. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

Express Mail Label No.

First Inventor

Title

40296-0054

Ky Nam LEE tal.

Meth d for Manufacturing MTJ Cell of Magnetic Random Access M mory

	04	APPLICATION ELEMEN	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450									
	See N	APEP chapter 600 concerning utility pater	пт аррисано	n contents.	l			andria, VA 2	2313-1450			
1.		ee Transmittal Form (e.g., PTO) Submit an original and a duplicate	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)									
2.	•	pplicant claims small entity state	Nucleotide and/or Amino Acid Sequence Submis (if applicable, all necessary)						0			
3.		pecification referred arrangement set forth be		l Pages <u>11</u>]				-	ble Form	CRF)	PT 26
	- [Descriptive title of the Invention				b. 8	Specific	cation Sec	quence Lis	ting c	n:	≈.S
		Cross Reference to Related Applic Statement Regarding Fed-Sponso		i. 🔲	CD-R	OM or CE)-R (2 cop	ies); d	or	73.∪		
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		program listing appendix Background of the Invention			c. 🔲 S	Stateme	nts verifyin	g identity of	abov	e co	pie∯	
		Brief Summary of the Invention										လ
	- E	Brief Detailed Description of the D	ACCOMPANYING APPLICATION PARTS									
		Detailed Description Claim(s)		9.	Assignr	ment Pa	pers (cove	r sheet & d	ocume	ent(s))	
		Abstract of the Disclosure			10.	☐ 37 CFR	3.73(b)		t 🗆			f Attome
4.	⊠ D	rawing(s) (35 CFR 113)	[Tota	al Sheets 3]	11.	☐ English		_	•	icable	•)	
5.	⊠ o	Path or Declaration	[Tota	al Sheets 5]	12.	☐ Informat		closure)/PTO-144		ies of	IDS	Citation
	a.	✓ Newly executed (original)										
	b.	. Copy from a prior applica	application (37 CFR 1.63(d))		13. 14.	☑ Prelimin ☑ Return I	•		MPEP 503)			
		i. DELETION OF INV				(Should be specifically itemized)						
		Signed statement at inventor(s) named in	15.	Certified (if foreig		of Priority D ty is claime)				
		see 37 CFR 1.63(d)	16.			under 35 U.S.C. 122(b)(2)(B)(i).						
6.	⊠ A	pplication Data Sheet. See 37 (CFR 1.76	3	Applicant must attach form PTO/Sb/35 or its equivalent. 17. Other: Transmittal of Formal Drawings (3 sheets)							
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18. the		CONTINUING APPLICATION, c cation following the title, or in an App					informa	ation below	and in the	first se	entei	nce of
		continuation Divisional	☐ Contir	nuation-in-part	(CIP)	of prior ap	plicatio	n No.				
Pric	or appl	ication information: Examiner	Art Unit:									
Box	For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.											
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Nar	ne (Prin	t/Type) Johnny A. Kumar-)	7	V)	Re	gistration No.	(Attorne	v/Agent)	34,649	1 /	<u> </u>	1

This collection of information is required by 37 C.F.R. 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 C.F.R. 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions by reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

Signature

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FEE	TRANSMITTAL
	for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 810.00

Complete if Known						
Application Number	Unassigned					
Filing Date	Concurrently Herewith					
First Named Inventor	Kye Nam LEE et al.					
Examiner Name	Unassigned					
Art Unit	Unassigned					
Attorney Docket No.	40296-0054					

METHOD OF PAYMENT (check one)					FEE CALCULATION (continued)						
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Deposition	t 08-1		cket No.	40296-0054)	7	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
Deposi						1051	130	2051	65	Surcharge - late filing fee or oath	
Accoun	t Helle	er Ehrma	n White &	& McAuliffe LLI	>	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name						1053	130	1053	130	Non-English specification For filing a request for ex parte	
The Commissioner is authorized to: (check all that apply)						1812	2,520	1812	2,520	reexamination	
☐ Charge fee(s) indicated below ☐ Credit any overpayments						1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☐ Charge any additional fee(s) during the pendency of this application						1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.					1251	110	2251	55	Extension for reply within first month		
FEE CALCULATION					1252	420	2252	210	Extension for reply within second month		
1. BASI	C FILINO	FEE				1253	950	2253	475	Extension for reply within third month	
Large Fee	Entity	Small Fee	Entity	Fee Description	Fee Paid	1254	1,480	2254	740	Extension for reply within fourth	·
Code	Fee (\$)	Code	Fee (\$)			1255	2,010	2255	1,005	Extension for reply within fifth	
1001	770	2001	385	Utility filing fee	770	1401	330	2401	165	Notice of Appeal	
1002	340	2002	170	Design filing fee		1402	330	2402	165	Filing a brief in support of an appeal	
1003	530	2003	265	Plant filing fee		1403	290	2403	145	Request for oral hearing	
1004	770	2004	385	Reissue filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005	160	2005	80	Provisional filing fee		1452	110	2452	55	Petition to revive - unavoidable	
		SI	U BTOTAI	. (1) (5	770	1453	1,330	2453	665	Petition to revive - unintentional	
2. EXT	RA CLAIN	1 FEES F	OR UTIL	ITY AND REISS	UE	1501	1,330	2501	665	Utility issue fee (or reissue)	
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Total Claims	2	-20** =	0	x 18	= 0	1503	640	2503	320	Plant issue fee	
Independent Claims	t 1	-3**=	0	x 86	= 0	1460	130	1460	130	Petitions to the Commissioner	
Multiple [Dependent				=	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Fee	Entity Fee	Small Fee	Entity Fee	Fee Desci	iption	1806	180	1806	180	Submission of Information Disclosure Stmt	
Code 1202	(\$) 18	Code 2202	(\$) 9	Claims in excess o	f 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1201	86	2201	43	Independent claim	s in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203	290	2203	145	Multiple dependen	t claim, if not	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	-
1204	86	2204	43	**Reissue indepen		1801	770	2801	385	Request for Continued Examination (RCE)	
1205	18	2205	9	**Reissue claims i and over original p	n excess of 20	1802	900	1802	900	Request for expedited examination of a design application	
	SUBTO	TAL (2)		(\$)		Other fee	e (specify)				
**or nun	**or number previously paid, if greater; For Reissues, see above				* Reduce	ed by Basic	: Filing F	ee Paid	SUBTOTAL (3)	(\$) 40	

SUBMITTED BY				Complete (if applicable)
Name (Print/Type)	Johnny A. Kumar	Registration No. (Attorney/Agent)	34,649	Telephone 202-912-2000
Signature	Johnny W. Krune	Date	12/15/23	Customer No. 26633

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If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: 40296-0054

Applicant:

Kye Nam LEE et al.

Confirmation No.:

Appl. No.:

Unassigned

Examiner: Unassigned

Filing Date: Concurrently Herewith

Art Unit: Unassigned

Title:

METHOD FOR MANUFACTURING MTJ CELL OF MAGNETIC

RANDOM ACCESS MEMORY

TRANSMITTAL OF FORMAL DRAWINGS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

ATTENTION: DRAWING REVIEW BRANCH

Sir:

Applicants submit herewith formal drawings, Figures 1-3 (3 sheets) for the abovecaptioned application as corrected in the Preliminary Amendment submitted herewith. The Official Draftsperson is respectfully requested to approve these drawings for entry into the application.

Respectfully submitted,

HELLER EHRMAN WHITE &

MCAULIFFE

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